



Ontario

Ministry
of the
Environment

Water Resources
Bulletin 3-13
Surface water series

Hon. Harry C. Parrott, D.D.S., *Minister*
Graham W.S. Scott, *Deputy Minister*

SELECTED STREAMFLOW DATA FOR ONTARIO 1978

MOE
WRB
SWS
3-13

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BULLETIN 3-13
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DATA FOR
ONTARIO
1978**

ISSN 0382-2915

MINISTRY OF THE ENVIRONMENT
Water Resources Branch

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INTRODUCTION

This bulletin contains streamflow data collected during 1978 by personnel of the Ministry of the Environment.

The basic data were collected and compiled by the Water Resources Assessment Units of the Ministry's Regional Offices at London, Stoney Creek, Don Mills, Kingston and Sudbury.

This publication was prepared by personnel of the Hydrology and Monitoring Section of the Water Resources Branch, Ministry of the Environment, Toronto.

Enquiries concerning the data in this bulletin should be made to the following:

Hydrology and Monitoring Section
Water Resources Branch
135 St. Clair Ave. West
Toronto, Ontario M4V 1P5

Technical Support Section
London Regional Office
985 Adelaide Street South
London, Ontario N6E 1V3

Technical Support Section
Kingston Regional Office
133 Dalton Street
Kingston, Ontario K7L 4X6

Technical Support Section
Hamilton Regional Office
140 Centennial Parkway North
Stoney Creek, Ontario
L8E 3H2

Technical Support Section
Toronto Regional Office
150 Ferrand Drive (Suite 700)
Don Mills, Ontario M3C 3C3

Technical Support Section
Sudbury Regional Office
469 Bouchard Street
Sudbury, Ontario P3E 2K8

Other Data Sources

Data collected by the Regional Offices on a daily basis throughout the year in Southern Ontario are not published in this bulletin. For convenience, these data are included in the Federal Government publication, "Surface Water Data - Ontario". That publication, which includes streamflow and water-level data for numerous rivers and lakes in the Province, is published annually by Water Survey of Canada. Enquiries should be made to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0E7.

DATA QUALITY

Many of the flows were determined by direct measurements; others are values calculated from a reading of water elevation and an empirically determined stage-discharge relationship. For stations where a stage-discharge relationship has been developed, the following terms are used to describe the quality of the records.

Excellent:

Records obtained at a site where an intensive discharge measurement program has produced a well-defined and stable stage-discharge relationship.

Good:

Records obtained from a site where an intensive discharge measurement program has produced a well-defined stage-discharge relationship which is not completely stable due to minor shifting of the stream bed or other channel properties which control water levels.

Fair:

Records obtained from a site where scarcity of discharge measurements has permitted only moderate definition of the stage-discharge relationship.

Poor:

Records obtained from a site where an unstable control, poor discharge measurement section or discharge measurements has resulted in a poorly defined stage-discharge relationship.

DEFINITION OF TERMS AND ABBREVIATIONS

"Cubic foot per second" (cfs) is the unit expressing the rate of streamflow discharge used in this bulletin.

"Acre-foot" (ac-ft) is the volume of water required to cover an area of one acre to a depth of one foot. It is equal to 43,560 cubic feet.

"WPCP" Water Pollution Control Plant.

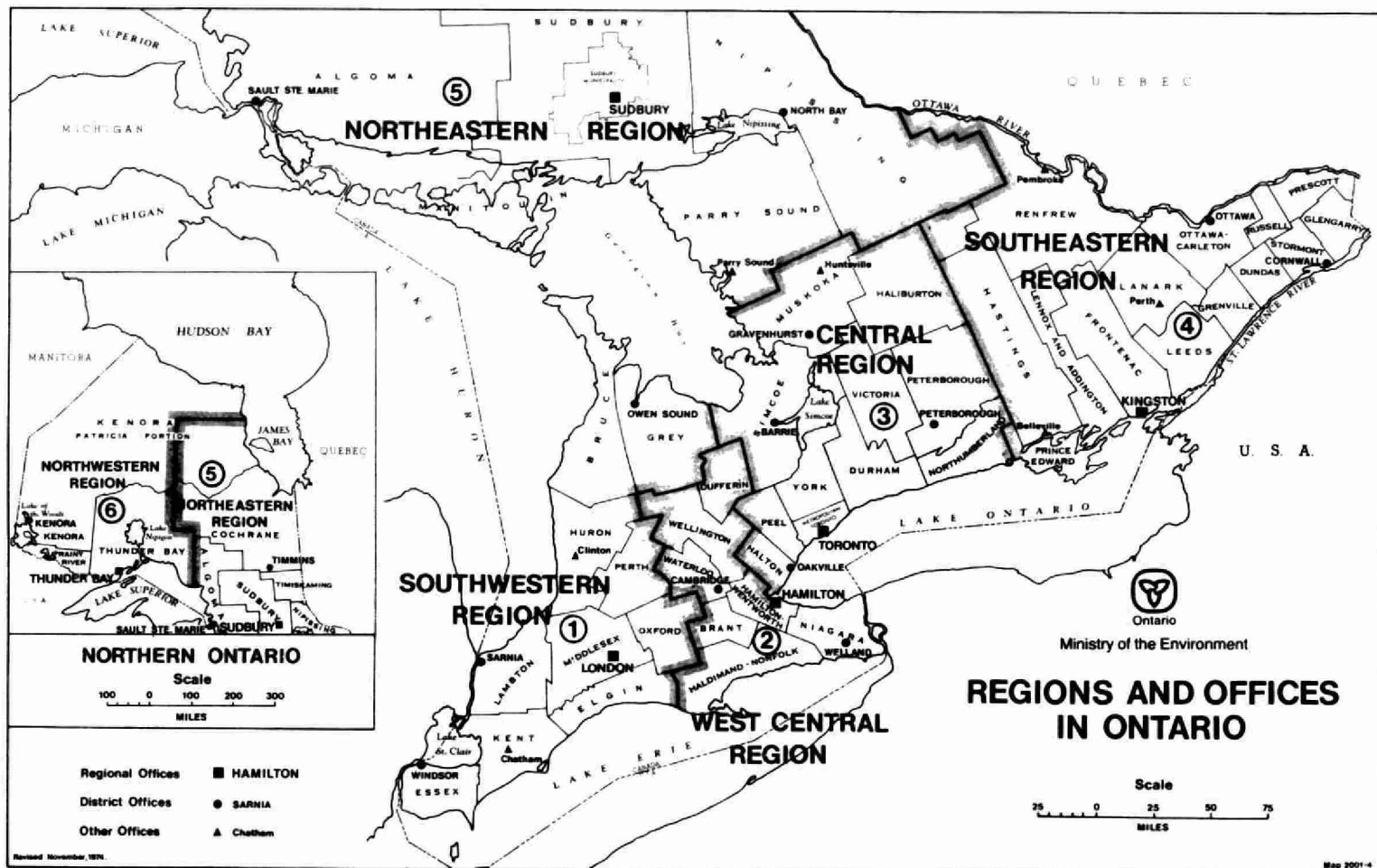
"No Flow" (N.F.) This notation indicates a field observation of either no streamflow, or a flow of less than 0.05 cfs.

1 cubic foot equals 6.232 Imperial gallons.

1 cubic foot per second equals 374 Imperial gallons per minute.

1 cubic foot per second for one day equals 1.984 acre-feet.

1 cubic foot per second equals 0.0283 cubic metres per second.



AUSABLE RIVER BELOW EXETER

Station No. 02FF103

Location: At the bridge on Hwy. 83 about 0.8 mile west of the junction with Hwy. 4 in the Town of Exeter

Gauge: None

Drainage Area: 42 square miles

Period of Record: June 1975 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 24	28.2	July 24	1.1	Oct. 2	3.7
		June 6	7.8	Aug. 9	0.3	Oct. 12	47.4
		June 22	5.6			Oct. 18	16.9
						Nov. 1	9.5

AUSABLE RIVER TRIBUTARY NEAR HENSALL

(Hensall Creek)

Station No. 02FF105

Location: At the bridge on Hwy. 4, about 1.1 miles south of the Village of Hensall

Gauge: None

Drainage Area: 6.1 square miles

Period of Record: June 1975 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 12	8.1	July 24	<0.5	Oct. 2	1.4
		May 24	3.1	Aug. 9	<0.5	Oct. 11	7.7
		June 6	1.2			Oct. 18	3.1
		June 13	8.5			Nov. 1	2.0
		June 19	2.3			Dec. 4	32.8

AUSABLE RIVER NEAR CREDITON

Station No. 02FF106

Location: At the bridge on Stephen Township Side
Road 1, about 2 miles southeast of the
Police Village of Crediton.

Gauge: None

Drainage Area: 186 square miles

Period of Record: July 1968 to December 1978

Remarks: Data prior to 1975 appear in the Summer
Gauging Site Data section of previous
bulletins in this series

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 24	97.8	July 24	1.6	Oct. 2	11.5
		June 6	19.0	Aug. 9	1.3	Oct. 18	39.9
		June 22	19.9	Aug. 23	1.3	Nov. 1	25.1

AUSABLE RIVER NEAR EXETER

Station No. 02FF109

Location: At the bridge at Concession 4, Lot 29,
Township of Usborne, about 4 miles
northeast of the Town of Exeter.

Gauge: Measuring point

Drainage Area: 26.9 square miles

Period of Record: May to November 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 24	12.6	July 24	0.4	Oct. 2	2.5
		June 6	4.6	Aug. 9	<0.5	Oct.12	15.5
		June 13	7.5			Oct.18	6.1
		June 22	2.9			Nov. 1	5.2

BAXTER CREEK NEAR MILLBROOK

Station No. 02HJ104

Location: Upstream of township road bridge at Lot 10,
Concession 4, Township of Caven, about 1 mile
southeast of the Town of Millbrook

Gauge: Measuring Point

Drainage Area: 11.8 square miles

Period of Record: October 1977 to November 1978

Remarks: Records good, temporary onstream recorder
installed April 1 to November 30, 1978

DAILY DISCHARGE IN CUBIC FEET PER SECOND

1978									
Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Day
1	34.2	19.3	15.3	13.5	13.8	14.4	21.2	15.8	1
2	27.7	19.2	14.9	13.3	13.6	14.2	14.2	15.5	2
3	19.6	18.9	14.3	13.2	16.4	15.3	14.4	15.4	3
4	18.0	18.6	13.9	13.3	14.0	14.1	20.0	15.1	4
5	24.7	18.9	14.5	13.0	13.4	13.7	15.9	15.2	5
6	25.2	20.3	13.9	12.9	13.4	13.8	28.0	15.5	6
7	51.1	20.2	14.3	12.8	13.1	13.6	17.5	15.5	7
8	28.4	19.5	15.0	12.7	13.5	14.1	15.4	15.2	8
9	26.4	26.5	13.8	12.8	16.9	13.5	15.3	15.4	9
10	23.6	20.5	13.4	12.5	13.2	13.7	15.4	15.6	10
11	40.5	19.0	13.4	12.5	12.8	20.2	14.9	15.8	11
12	41.0	20.4	14.0	12.8	12.4	22.0	16.6	15.8	12
13	51.1	22.9	17.0	12.9	11.9	14.7	15.6	16.2	13
14	45.9	51.1	14.1	13.0	11.9	14.3	16.8	26.4	14
15	29.8	37.3	13.6	13.0	11.9	20.5	16.0	17.7	15
16	28.5	25.3	13.6	13.5	12.4	14.6	15.3	16.3	16
17	28.9	24.3	14.1	13.3	13.6	14.3	15.1	27.5	17
18	28.3	22.6	14.0	13.1	13.2	25.1	15.4	22.9	18
19	36.2	20.9	13.9	13.2	13.2	23.3	15.8	17.4	19
20	52.4	24.1	13.8	13.1	16.7	14.6	16.1	16.4	20
21	44.0	24.0	14.1	18.7	15.4	15.0	15.8	15.4	21
22	31.0	19.6	14.3	17.7	13.6	14.2	15.9	15.0	22
23	28.1	18.8	14.2	16.7	13.2	13.6	16.2	27.0	23
24	26.6	18.1	14.1	14.0	13.6	13.3	15.6	24.5	24
25	25.7	18.0	14.0	13.5	16.7	13.3	17.0	18.3	25
26	24.0	17.5	14.2	13.6	15.8	13.2	23.0	16.1	26
27	22.8	17.3	14.2	14.1	14.5	13.3	17.6	15.7	27
28	21.8	16.8	13.9	13.9	14.1	13.6	16.7	15.9	28
29	20.6	16.4	13.7	13.8	14.5	13.0	16.1	16.6	29
30	19.7	15.9	13.6	13.9	14.5	13.7	16.2	17.2	30
31		16.0		13.5	14.5		16.1		31

BEAVER CREEK NEAR PORT STANLEY

Station No. 02GC114

Location: At the first township road bridge about 0.4 mile upstream of the confluence with Kettle Creek, about 4 miles north of the Village of Port Stanley.

Gauge: None

Drainage Area: 8.8 square miles

Period of Record: May 1978 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 23	8.2	July 21	2.9	Nov. 2	4.8
		June 28	5.1	July 27	4.5		
				Aug. 22	5.5		

BLACK CREEK BELOW ACTON

9

Station No. 02HB106

Location: At the bridge on Concession 4, Township of Esquesing about 1.5 miles southeast of the Town of Acton

Gauge: On-stream recorder

Drainage Area: 10.0 square miles

Period of Record: April 1966 to December 1978

Remarks: Temporary on-stream recorder installed March 18 to December 18, 1978. Discharge affected by regulation

DAILY DISCHARGE IN CUBIC FEET PER SECOND

1978													
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Day
1				43.2	10.9	6.3	5.0	4.4	2.6	3.9	4.5	8.8	1
2				61.0	10.6	7.8	4.8	4.1	2.3	3.6	4.6	8.5	2
3				42.0	11.0	7.5	5.0	5.9	2.2	3.9	4.7	8.0	3
4				29.6	10.3	7.3	6.1	4.0	2.4	9.4	4.5	13.9	4
5				30.5	11.0	7.9	5.3	3.4	2.4	6.6	4.2	12.5	5
6				31.3	12.0	7.8	5.0	3.6	2.4	9.1	4.5	12.0	6
7				48.2	11.9	8.3	4.8	3.9	2.3	6.9	4.8	11.4	7
8				42.9	12.5	8.9	5.0	4.1	2.9	5.9	4.6	11.8	8
9				31.9	15.9	8.3	4.7	4.5	3.0	5.4	4.7	11.5	9
10				27.4	16.8	7.6	4.5	4.3	3.1	5.5	4.8	10.6	10
11				44.4	14.6	7.4	4.3	3.6	3.7	5.6	4.6	10.4	11
12				50.7	16.0	9.9	4.3	3.3	9.2	5.5	4.3	9.7	12
13				37.9	22.7	11.4	4.6	3.4	3.1	4.9	4.8	9.4	13
14				32.0	29.9	8.8	4.4	3.9	3.4	4.6	9.5	9.0	14
15				26.1	26.9	8.2	4.1	4.8	6.5	4.5	6.0	8.7	15
16			-	23.8	21.0	7.9	3.8	4.8	3.8	3.8	5.8	8.2	16
17			-	20.9	19.0	7.8	3.7	3.7	6.3	3.8	10.5	8.4	17
18			12.9	19.4	17.2	7.6	3.9	3.3	9.4	3.9	12.1	8.3	18
19			12.8	24.2	14.7	7.6	3.6	3.3	15.8	3.9	12.9	-	19
20			12.5	28.6	14.1	7.6	3.6	3.3	9.9	4.1	11.0	-	20
21			20.0	31.4	15.5	7.8	4.9	3.2	8.4	3.9	9.6		21
22			24.0	25.9	13.6	7.3	4.7	3.0	7.5	3.6	8.8		22
23			28.0	21.8	10.5	6.8	4.5	2.9	5.9	3.6	13.4		23
24			29.7	18.9	7.3	6.5	3.9	4.6	4.6	3.9	15.2		24
25			25.2	16.5	6.9	6.2	3.8	4.1	4.5	4.6	15.4		25
26			22.3	15.7	6.4	6.7	4.1	2.8	4.0	7.4	12.6		26
27			21.2	15.1	6.4	6.4	4.6	2.2	3.7	5.3	10.6		27
28			20.7	13.2	6.2	5.8	4.2	4.6	3.5	4.9	10.6		28
29			20.1	12.2	6.3	5.6	4.4	5.2	3.3	4.6	9.7		29
30			21.8	11.6	6.6	5.3	4.4	3.6	3.3	4.6	9.7		30
31			27.5		6.5		4.4	3.1		4.5			31

BLYTH BROOK NEAR BLYTH

Station No. 02FE105

Location: At the bridge on Side Road 39-40,
Township of East Wawanosh, about 1.5 miles
northwest of the Village of Blyth

Gauge: Staff

Drainage Area: 19.5 square miles

Period of Record: July 1975 to December 1978

Remarks: Records fair

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 25	11.6	July 25	1.5	Oct. 2	6.4
		June 7	4.8	Aug. 9	2.2	Oct. 11	24.5
		June 23	4.8	Aug. 23	0.9	Oct. 18	9.5
						Nov. 1	9.0

BOYNE RIVER AT FLESHERTON

Station No. 02FB103

Location: At the bridge on Hwy. 10 in the Village
of Flesherton

Gauge: On-stream recorder

Drainage Area: 9.9 square miles

Period of Record: June 1975 to November 1978

Remarks: Temporary on-stream recorder and weir installed
May 31 to November 19, 1978

DAILY DISCHARGE IN CUBIC FEET PER SECOND

1978								
Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Day
1		6.9		3.2		4.4	5.6	1
2		6.7		3.1		4.0	4.7	2
3		6.4		-		3.9	4.6	3
4		6.3		4.4		7.3	5.1	4
5		8.8		3.6		6.2	5.0	5
6		8.4		3.5		5.9	4.9	6
7		7.6		3.9		5.8	5.0	7
8		7.3		3.8		5.8	-	8
9		6.9		3.8		5.2	-	9
10		6.4		4.4		4.9	-	10
11		5.9		3.9		5.1		11
12		7.9		3.7		5.7		12
13		-		3.4		5.5		13
14		-		3.4		5.1		14
15		-		3.3		4.9		15
16			-	3.5	4.5		4.0	16
17			-	3.8	4.1		5.2	17
18			3.4	3.8	6.1		7.6	18
19			3.3	3.5	9.5		6.8	19
20			3.1	3.6	7.0		-	20
21		-	4.0	3.5	6.4			21
22		7.5	3.7	3.4	5.5			22
23		6.9	3.6	3.5	4.7			23
24		6.7	3.7	4.8	4.5			24
25		-	3.5	4.1	4.1			25
26	-	6.5	3.9	3.8	4.0	-		26
27	-	6.3	4.8	3.9	4.0	-		27
28	-	5.8	3.6	3.8	4.0	-		28
29	-	5.8	3.8	3.5	3.8	-		29
30	-	5.7	3.6	3.4	4.0	-		30
31	7.1		3.4	3.4		6.5		31

BUTLER CREEK BELOW BRIGHTON

Station No. 02HD100

Location: At the wooden bridge on Harbour Street
about 1 mile south of the Village of Brighton

Gauge: Staff

Drainage Area: 11.7 square miles

Period of Record: June 1966 to December 1975
May 1977 to December 1978

Remarks: Records fair

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		June 26	3.6	Sept. 19	6.6	Oct. 18	4.1
						Nov. 7	4.3

CATFISH CREEK AT GLENCOLIN

Station No. 02GC112

Location: At the bridge on Elgin County Road 30
in the Community of Glencolin

Gauge: None

Drainage Area: 33 square miles

Period of Record: July 1976 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		June 8	8.2	July 21	1.8	Nov. 2	3.8
		June 28	3.9	July 27	2.8		
				Aug. 22	1.7		

CATFISH CREEK NEAR ORWELL

Station No. 02GC110

Location: At the bridge on Hwy. 3, about 0.5 mile east of the Community of Orwell

Gauge: None

Drainage Area: 52 square miles

Period of Record: May 1975 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		June 2	14.2	July 21	2.5	Nov. 2	7.7
		June 28	7.7	July 27	5.3		
				Aug. 22	2.1		

COBOURG BROOK AT COBOURG

Station No. 02HD103

Location: At the bridge adjacent to the WPCP in the
Town of Cobourg

Gauge: Wire Weight

Drainage Area: 48.7 square miles

Period of Record: July 1966 to December 1978

Remarks: Records good

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		June 26	28.5	Aug. 10	30.0	Oct. 18	26.1
				Sept. 20	35.2	Nov. 7	26.6

CREDIT RIVER BELOW THE ORANGEVILLE DAM

Station No. 02HB112

Location: About 200 yards downstream from the outlet of the Orangeville dam at the eastern limits of the Town of Orangeville

Gauge: Staff

Drainage Area: 7.0 square miles

Period of Record: May to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 9	4.2	July 14	2.4		
		June 7	0.4	July 20	5.4		
		June 28	2.5	July 28	5.3		
				Aug. 14	5.3		

Station No. 02GC115

Location: About 300 yards upstream of the bridge on Hwy 4, about 0.25 mile north of the Ford Motor Company Talbotville Plant.

Gauge: On-stream recorder

Drainage Area: 7.4 square miles

Period of Record: June to December 1978

Remarks: Temporary on-stream records and weir installed June 30, 1978

DAILY DISCHARGE IN CUBIC FEET PER SECOND

1978								
Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Day
1			0.4	0.4	0.2	0.8	0.4	1
2			0.4	0.3	0.1	0.5	0.4	2
3			0.4	0.4	0.1	0.5	0.4	3
4			0.4	0.3	0.1	5.1	0.4	4
5			0.4	0.2	0.1	1.9	0.4	5
6			0.4	0.2	0.1	1.6	0.4	6
7			0.3	0.2	0.1	1.5	0.7	7
8			0.3	0.3	0.1	1.0	0.4	8
9			0.3	0.6	0.1	0.8	-	9
10			0.3	0.6	0.1	0.8	-	10
11			0.3	0.3	0.1	0.6	-	11
12			0.2	0.2	0.2	0.5	-	12
13			0.2	0.2	0.2	0.8	-	13
14			0.3	0.2	0.6	0.7	-	14
15			0.3	0.2	3.4	0.6	-	15
16			0.3	0.4	2.6	0.5	0.4	16
17			0.2	0.3	0.8	0.4	1.9	17
18			0.2	0.2	0.7	0.4	-	18
19			0.2	0.4	1.3	0.5	2.5	19
20			0.2	0.5	1.8	0.5	1.4	20
21			0.7	0.3	0.8	0.4	0.9	21
22			1.3	0.2	0.5	0.3	0.8	22
23			0.5	0.2	0.4	0.4	1.9	23
24			0.4	0.2	0.4	0.4	-	24
25			0.3	0.2	0.3	0.4	-	25
26		-	0.3	0.2	0.3	1.4		26
27		-	-	0.2	0.4	1.7		27
28		-	-	0.2	0.4	0.8		28
29		-	-	0.2	0.3	0.6		29
30		0.3	1.2	0.2	0.5	0.5		30
31			0.5	0.2		0.5		31

DODD CREEK NEAR TALBOTVILLE ROYAL

Station No. 02GC110

Location: At the bridge on the side road leading west off Hwy. 4, about 1.5 miles northwest of the Hamlet of Talbotville Royal.

Gauge: Staff

Drainage Area: 8.8 square miles

Period of Record: May 1972 to December 1974
June to December 1978

Remarks: Records fair

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		June 5	2.3	July 27	3.8	Nov. 2	2.9
		June 23	0.6	Aug. 27	2.3		
		June 28	0.3				

GAGE CREEK AT PORT HOPE

Station No. 02HD104

Location: At the bridge on Hwy 2 about 1 mile
east of the Town of Port Hope

Gauge: Staff

Drainage Area: 16.7 square miles

Period of Record: August 1966 to December 1978

Remarks: Records good

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		June 23	4.1	Aug. 10	3.0	Oct. 18	5.1
				Sept. 20	8.6	Nov. 8	4.9

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		June 23	6.4	Aug. 10	4.9	Oct. 19	11.2
				Sept.19	64.4	Nov. 8	10.1

KETTLE CREEK NEAR PORT STANLEY

Station No. 02GC111

Location: At the road bridge 1.5 miles north of
the Village of Port Stanley

Gauge: None

Drainage Area: 151 square miles

Period of Record: July 1975 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 23	67.8	July 21	13.5	Nov. 2	17.3
		June 28	21.2	July 27	40.7		
				Aug. 22	14.4		
				Sept. 28	22.0		

KOMOKA CREEK NEAR KOMOKA

Station No. 02GE108

Location: At the first bridge on Regional Road 14
west of the Village of Komoka

Gauge: Staff

Drainage Area: 7.0 square miles

Period of Record: May to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 26	6.3	July 13	1.8	Oct. 20	2.7
		June 9	5.8	Aug. 5	2.2	Nov. 3	2.1
		June 30	3.0	Aug. 17	2.4		
				Aug. 27	1.4		

LOVERS CREEK NEAR BARRIE

Station No. 02EC115

Location: At the culvert on Tollendale Road in
the Community of Minet Point

Gauge: Measuring Point

Drainage Area: 23.6 square miles

Period of Record: May 1968 to December 1978

Remarks: Data prior to 1976 appear under the name
"Painswick Creek" in the Summer Gauging Site
Data section of previous bulletins in this
series.

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 11	27.1	Aug. 24	6.9	Oct. 30	10.8
		June 13	19.0	Aug. 30	7.5		

<u>Location:</u>	At the bridge on Huron County Road 27, about 1.5 miles below the Hamlet of Lucknow
<u>Gauge:</u>	Measuring Point
<u>Drainage Area:</u>	48.7 square miles
<u>Period of Record:</u>	January 1969 to December 1978
<u>Remarks:</u>	Records good

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 25	56.9	July 25	17.5	Oct. 3	32.3
		June 7	32.8	Aug. 10	43.5	Oct. 11	75.6
		June 23	43.8			Oct. 17	42.1
						Oct. 31	42.1

MAYHEW CREEK NEAR TRENTON

Station No. 02HK109

Location: At the bridge on Side Road 14-15, Township of Murray, about 2.5 miles west of the Town of Trenton

Gauge: On-stream recording

Drainage Area: 4.7 square miles

Period of Record: July 1973 to October 1976
June to December 1978

Remarks: Records good. Temporary on-stream recorder installed June 21 to October 14.

DAILY DISCHARGE IN CUBIC FEET PER SECOND

1978								
Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Day
1			3.4	3.0	4.9	2.4		1
2			2.6	2.5	2.3	2.8		2
3			2.4	4.8	1.3	2.1		3
4			1.8	19.1	1.2	2.3		4
5			1.5	30.0	0.9	2.1		5
6			1.7	16.7	0.8	1.5		6
7			1.8	8.0	0.6	1.4		7
8			1.9	2.6	0.5	1.4		8
9			1.6	1.4	0.5	1.5		9
10			1.1	1.4	0.4	1.8		10
11			2.5	1.3	0.8	1.5		11
12			2.2	1.1	6.9	1.2		12
13			1.4	1.7	8.4	1.6		13
14			5.3	1.5	4.7	2.4		14
15			9.2	0.9	3.4	-		15
16			3.2	1.3	2.9			16
17			2.8	2.3	2.6			17
18			2.0	2.2	2.5			18
19			1.5	2.0	9.1			19
20			1.9	2.3	12.5			20
21		1.8	2.1	2.3	9.8			21
22		1.9	2.4	2.0	5.6			22
23		2.2	2.6	1.5	3.4			23
24		2.8	3.1	1.2	1.3			24
25		2.2	3.1	1.6	0.5			25
26		2.4	2.9	1.7	3.6			26
27		2.5	14.4	1.5	8.4			27
28		2.2	16.3	1.5	1.6			28
29		2.3	11.0	3.5	1.0			29
30		3.4	7.7	4.1	0.7			30
31			4.6	5.6				31

MAYHEW CREEK AT SMITHFIELD

29

Station No. 02HK110

Location: North of the Community of Smithfield at
Lot 18, Concession 1

Gauge: On-stream recorder

Drainage Area: 3.4 square miles

Period of Record: June to December 1978

Remarks: Temporary on-stream recorder installed
June 23 to October 13, 1978

DAILY DISCHARGE IN CUBIC FEET PER SECOND

1978									
Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Day
1				1.6	1.5	1.3	2.3		1
2				1.6	1.3	1.3	1.9		2
3				1.6	3.8	1.4	1.9		3
4				1.5	2.7	1.3	2.1		4
5				1.4	1.8	1.3	1.7		5
6				1.2	1.5	1.2	1.8		6
7				1.1	1.0	1.3	1.8		7
8				1.2	1.0	1.2	1.8		8
9				1.2	1.3	1.0	2.2		9
10				1.0	1.3	1.0	1.9		10
11				0.9	1.1	2.2	1.8		11
12				1.1	1.6	3.6	1.9		12
13				1.3	1.6	2.0	2.5		13
14				1.4	1.2	1.5	-		14
15				1.2	1.2	2.8	-		15
16				1.2	2.2	1.9			16
17				1.2	2.0	1.5			17
18				1.1	1.5	2.2			18
19				1.2	1.5	4.5			19
20				1.2	2.0	2.2			20
21			-	1.3	1.5	1.8			21
22			-	1.3	1.3	1.7			22
23			2.1	1.7	1.2	1.5			23
24			1.9	1.6	1.5	1.5			24
25			1.9	1.2	2.0	1.5			25
26			2.0	1.3	1.5	1.4			26
27			2.0	3.8	1.2	1.5			27
28			1.9	1.7	1.6	1.8			28
29			1.7	1.6	2.9	1.4			29
30			2.0	1.7	1.8	1.5			30
31				1.5	1.5				31

MIDDLE MAITLAND RIVER AT BRUSSELS

Station No. 02FE103

Location: At the bridge on Huron County Road 12,
in the Village of Brussels

Gauge: None

Drainage Area: 220 square miles

Period of Record: June 1975 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 25	10.7	July 25	6.6	Oct. 2	53.6
		June 7	31.3	Aug. 9	1.7		
		June 23	47.3	Aug. 23	0.6		

MOUNT ALBERT CREEK NEAR MOUNT ALBERT

Station No. 02EC104

Location: At the bridge on Queensville Side Road,
about 2.5 miles north of the Community of
Mount Albert

Gauge: On-stream recorder

Drainage Area: 24.3 square miles

Period of Record: July 1970 to December 1978

Remarks: Records fair. Temporary on-stream recorder
installed March 16 to December 31, 1978

DAILY DISCHARGE IN CUBIC FEET PER SECOND

1978													
Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Day
1				79.4	18.6	13.8	9.7	9.3	12.5	18.4	17.6	1.24	1
2				162.0	18.4	13.5	10.0	9.7	11.9	18.9	17.3	14.5	2
3				73.9	18.2	13.8	9.7	13.7	13.1	16.2	17.0	17.2	3
4				45.5	18.2	13.2	9.8	13.5	14.2	25.3	16.6	16.6	4
5				49.0	17.9	14.7	9.8	12.0	13.6	23.8	16.5	14.9	5
6				64.7	20.9	15.1	9.7	10.7	12.2	22.2	16.6	15.8	6
7				134.0	21.5	15.1	9.7	10.4	11.8	22.7	16.8	15.5	7
8				117.0	20.3	15.8	9.7	10.7	11.9	21.6	16.3	15.0	8
9				53.3	25.1	15.1	9.5	13.7	12.3	19.3	16.4	14.9	9
10				44.8	26.4	13.9	9.4	16.4	12.0	19.5	16.3	16.0	10
11				87.0	22.4	13.2	9.4	12.8	12.3	18.0	16.1	16.2	11
12				105.0	22.7	13.1	9.5	11.6	15.4	17.2	16.1	14.9	12
13				65.7	27.5	22.9	9.5	11.1	14.9	16.5	16.2	13.6	13
14				48.9	45.7	18.2	9.8	10.7	13.3	16.6	22.9	13.5	14
15				35.7	65.6	14.9	9.6	11.8	15.3	17.5	21.8	13.4	15
16			19.8	304	37.1	13.6	9.8	18.5	14.7	16.7	19.0	13.6	16
17			19.3	29.3	28.4	13.8	11.3	15.4	13.6	16.4	18.6	13.0	17
18			18.0	28.3	25.4	16.0	10.5	13.1	17.0	16.5	24.8	13.0	18
19			17.2	29.9	22.4	16.0	9.9	12.6	37.2	16.9	22.4	13.0	19
20			16.8	43.1	21.0	14.0	9.5	16.2	23.7	18.7	19.0	13.3	20
21			25.6	70.5	23.4	12.9	9.8	13.8	20.9	18.2	17.4	13.7	21
22			32.3	53.6	20.6	12.8	10.9	12.1	22.9	17.5	16.3	14.0	22
23			36.4	34.4	19.0	12.2	11.0	11.4	18.4	17.1	18.6	14.4	23
24			42.2	28.3	18.1	12.1	10.2	13.8	16.0	16.9	25.6	14.3	24
25			38.3	25.5	17.1	11.7	9.3	18.6	16.0	16.9	22.2	14.4	25
26			30.0	23.4	16.3	11.8	9.4	14.9	13.7	20.7	20.0	14.8	26
27			26.1	22.4	15.8	11.7	9.8	13.0	13.6	22.3	17.7	14.9	27
28			24.7	21.2	14.9	11.0	9.5	13.0	14.7	19.6	16.8	14.4	28
29			24.5	20.3	14.4	10.6	9.3	15.6	14.6	18.1	13.9	13.8	29
30			27.4	18.5	14.2	9.7	9.9	14.4	14.6	17.6	12.5	14.3	30
31			34.6		13.9		9.6	12.8		18.1		15.9	31

NORTH BRANCH CREEK AT EMBRO

Station No. 02GD107

Location: At the bridge on Oxford County Road 6,
about 0.1 mile north of the Canadian
Pacific Railways bridge in the Village
of Embro.

Gauge: Measuring point

Drainage Area: 30.0 square miles in 1977

Period of Record: July 1975 to December 1978

Remarks: Records good

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		June 5	12.4	July 20	6.4	Oct. 20	10.5
		June 29	8.5	Aug. 17	5.2	Nov. 3	9.6
				Aug. 29	6.2		

NORTH SAUGEEN RIVER NEAR CHESLEY

33

Station No. 02FC106

Location: At the bridge on Concession 2-3, Township of Elderslie, about 1 mile west of the Town of Chesley

Gauge: None

Drainage Area: 87 square miles

Period of Record: July to November 1975
May to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 11	226	July 18	83.2	Oct. 3	115
		May 31	123	Aug. 4	172	Oct. 11	58.7
		June 15	180	Aug. 10	131	Oct. 17	127

OTTER CREEK AT MILDMAV

Station No. 02FC108

Location: At the Otter Creek Conservation Area
in the Village of Mildmay

Gauge: None

Drainage Area: 14.8 square miles

Period of Record: June 1975 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 11	27.8	July 18	9.5	Oct. 3	10.0
		June 1	17.0	Aug. 4	9.7	Oct. 11	12.9
		June 16	15.6	Aug. 10	13.4	Oct. 17	9.4
						Oct. 31	9.8

PARROTT CREEK NEAR HUNTSVILLE

Station No. 02EB115

Location: About 300 yards north off the side of Hwy.
60 approximately 3.1 miles east of the
junction of Hwy. 60 and Muskoka Road 3 near
the Town of Huntsville

Gauge: On-stream recorder

Drainage Area: 1 square mile

Period of Record: October 1977 to December 1978

Remarks: Temporary on-stream recorder and weir
installed April 4th to September 30th,
1978
Records good

DAILY DISCHARGE IN CUBIC FEET PER SECOND

1978									
Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Day
1		2.2	0.51	0.73	0.23	0.28			1
2		2.0	0.47	0.48	0.15	0.22			2
3		2.0	0.46	0.69	0.45	0.17			3
4		1.8	0.42	0.21	0.30	0.07			4
5		1.8	0.52	0.05	0.18	0.08			5
6		1.6	0.48	0.04	0.12	0.21			6
7		1.6	0.38	0.05	0.07	0.28			7
8		1.6	0.69	0.07	0.05	0.24			8
9		2.8	0.75	0.08	0.04	0.24			9
10		2.9	0.58	0.06	0.03	0.23			10
11		2.5	0.46	0.01	0.01	0.81			11
12		2.2	0.60	0.08	0.01	1.4			12
13		2.8	1.4	0.06	0.0	1.1			13
14		3.0	1.1	0.07	0.0	1.0			14
15		2.9	0.7	0.04	0.0	1.7			15
16		2.7	0.54	0.04	0.46	2.2			16
17		2.3	0.49	0.05	1.7	2.6			17
18		2.0	0.66	0.05	1.1	1.7			18
19		2.0	0.76	0.05	0.92	1.3			19
20		1.7	0.58	0.06	0.53	1.2			20
21		1.9	0.46	0.04	0.19	1.7			21
22		1.4	0.39	0.06	0.11	1.7			22
23		1.3	0.24	0.27	0.05	1.6			23
24	-	1.0	0.16	0.30	0.94	1.7			24
25	-	1.0	0.08	0.16	1.6	1.3			25
26	4.0	0.89	0.07	0.15	0.67	1.1			26
27	3.7	0.56	1.2	0.46	0.44	1.5			27
28	3.4	0.47	2.3	0.43	1.7	2.5			28
29	3.1	0.44	1.5	0.48	2.4	2.3			29
30	2.7	0.39	1.2	0.69	1.0	2.3			30
31		0.48		0.37	0.82				31

PRINGLE CREEK AT WHITBY

Station No. 02HD108

Location: At the old steel bridge below Victoria Street East, in the Town of Whitby

Gauge: Staff

Drainage Area: 8.3 square miles

Period of Record: July 1966 to December 1978

Remarks: Records good

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		June 23	5.5	Aug. 10	4.5	Oct. 19	6.8
				Sept. 19	16.8	Nov. 8	7.1

ROCKY SAUGEEN RIVER BELOW MARKDALE

Station No. 02FC100

Location: At the culvert on Side Road 100, Township
of Glenelg, about 0.3 miles southwest of
the Village of Markdale

Gauge: Staff

Drainage Area: 35.6 square miles

Period of Record: July 1967 to December 1978

Remarks : Records good

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 30	70.3	July 13	41.3	Oct. 4	56.2
		June 14	61.5	Aug. 3	35.5	Oct. 10	42.5
				Aug. 25	41.6	Oct. 16	41.1
						Oct. 30	44.6

SALEM CREEK NEAR COLBORNE

39

Station No. 02HD101

Location: About 200 feet upstream from the bridge on Blyth Road, approximately 1.5 miles southeast of the Village of Colborne

Gauge: Staff

Drainage Area: 3.5 square miles

Period of Record: November 1965 to December 1978

Remarks: Records good

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		June 26	5.9	Sept. 19	8.4	Oct. 18	4.8
						Nov. 7	5.9

Station No. 02FA100

SAUBLE RIVER AT TARA

Station No. 02FA101

Location: At the bridge on the Main Street in the Village of Tara

Gauge: None

Drainage Area: 81 square miles

Period of Record: June 1975 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 11	72.8	July 18	11.6	Oct. 3	30.3
		June 15	25.1	Aug. 4	12.7	Oct. 16	21.2
				Aug. 10	0.7	Oct. 30	50.9
				Aug. 24	7.0		

SAUGEEN RIVER NEAR PRICEVILLE

Station No. 02FC110

Location: At the bridge on Concession 2, Township of Glenelg, about 1.5 miles southeast of the Police Village of Priceville

Gauge:	Measuring Point
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
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21	21
22	22
23	23
24	24
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86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Drainage Area: 89 square miles

Period of Record: May 1968 to December 1978

Remarks: Data prior to 1975 appear in the Summer Gauging Site Data section of previous bulletins in this series

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 30	30.4	July 17	2.9		
		June 14	97.6				

Location: At the bridge on Concession 5-6, Township of Colborne, about 2 miles north of the Community of Benmiller

Gauge: None

Drainage Area: 19.9 square miles

Period of Record: July 1975 to December 1978

[illegible]

SOUTH PINE RIVER NEAR RIPLEY

Station No. 02FD106

Location: At the bridge on Concession 5-6, Township of Huron, about one mile southwest of the Village of Ripley

Gauge: None

Drainage Area: 11.8 square miles

Period of Record: June 1975 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 25	3.0	July 25	<0.5	Oct. 3	3.9
		June 7	0.9	Aug. 10	2.1	Oct. 11	16.5
		June 23	3.9			Oct. 17	4.0
						Oct. 31	4.2

45

Station No. 02FC111

Location: At the bridge on Side Road 1, Township of Arthur, about 0.6 mile southwest of the Town of the Mount Forest

Gauge:	Measuring Point
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Drainage Area: 140 square miles

Period of Record: May 1968 to December 1978

Remarks: Data prior to 1975 appear in the Summer Gauging Site Data section of previous bulletins in this series

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 10	169	July 17	12.8		
		May 30	43.4				
		June 14	79.9				

SOUTH SAUGREEN RIVER NEAR NEUSTADT

Station No. 02FC107

Location: At the bridge on Grey County Road 16
about 0.5 miles east of the Village of
Neustadt

Gauge: None

Drainage Area: 238 square miles

Period of Record: July to December 1975
May 1977 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		June 14	205	July 17	52.1		

SOUTH THAMES RIVER NEAR INNERKIP

47

Station No. 02GD105

Location: At the bridge on Concession 6, Township of Blandford, about 0.5 mile southeast of the Police Village of Innerkip

Gauge: Measuring Point

Drainage Area: 62.0 square miles

Period of Record: June 1972 to December 1978

Remarks: Records good

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		June 5	11.9	July 20	3.5	Oct. 20	7.2
		June 29	6.2	Aug. 17	2.3	Nov. 3	8.6
				Aug. 29	2.1		

SPEY RIVER NEAR CHATSWORTH

Station No. 02FB104

Location: At the culvert on Hwys. 6 and 10, about
0.7 mile north of the Village of Chatsworth

Gauge: None

Drainage Area: 15.3 square miles

Period of Record: May 1975 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 10	36.3	July 18	3.7	Oct. 4	30.3
		May 31	9.7	Aug. 3	5.0	Oct. 10	13.1
		June 15	9.9	Aug. 11	3.3	Oct. 16	9.2
				Aug. 25	3.3	Oct. 30	18.4

49

Location: At the bridge on Middlesex County Road 2,
about 1 mile west of the Hamlet of Cairngorm

Drainage Area: 37 square miles

Period of Record: July 1968 to December 1978

Remarks: Data prior to 1975 appear in the Summer Gauging Site Data section of previous bulletins in this series

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 26	20.5				
		June 9	14.5				
		June 30	9.0				

TEESWATER RIVER AT TEESWATER

Station No. 02FC104

Location: At the bridge on Hwy. 4 in the Village of Teeswater

Gauge: None

Drainage Area: 50 square miles

Period of Record: June 1975 to December 1978

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 12	96.4	Aug. 4	15.6	Oct. 11	45.4
		June 1	37.1	Aug. 10	27.7	Oct. 17	29.1
		June 16	21.3	Aug. 24	13.5	Oct. 31	29.7

<u>Location:</u>	At the bridge on 1st Street Louth, in the Community of Decew Falls
<u>Gauge:</u>	Measuring Point
<u>Drainage Area:</u>	18.8 square miles
<u>Period of Record:</u>	May 1969 to December 1975 April 1977 to December 1978
<u>Remarks:</u>	Records fair

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 10	10.2				
		May 19	10.6				
		May 29	7.1				

TWENTY MILE CREEK AT SMITHVILLE

Station No. 02HA106

Location: At the bridge on Canborough Street in
the Community of Smithville

Gauge: Measuring Point

Drainage Area: 69.5 square miles

Period of Record: May 1969 to December 1975
April 1977 to December 1978

Remarks: Records fair

1978							
Jan. to March		April to June		July to Sept.		Oct. to Nov.	
Date	cfs	Date	cfs	Date	cfs	Date	cfs
		May 10	8.7	July 17	0.03		
		May 19	37.7				
		May 29	6.9				
		June 22	1.7				

URFE CREEK NORTH OF PICKERING

53

Station No. 02HC116

Location: At the first bridge east of Brock Road on Durham Regional Road Number 4 about 2.5 miles north of the Town of Pickering

Gauge: Staff

Drainage Area: 4.1 square miles

Period of Record: January 1977 to December 1978

Remarks: Records good

DAILY DISCHARGE IN CUBIC FEET PER SECOND

1978									
Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Day
1			1.5	0.4	0.6	0.4	2.0	1.2	1
2			1.6	0.4	0.6	0.4	0.8	1.2	2
3			1.5	0.4	2.2	0.5	0.6	1.2	3
4			1.4	0.5	0.9	0.4	2.2	1.2	4
5			1.5	0.4	0.6	0.4	1.4	1.2	5
6			1.4	0.3	0.6	0.4	1.1	1.2	6
7			1.3	0.3	0.6	0.4	0.9	1.3	7
8			1.2	0.2	0.7	0.4	0.7	1.2	8
9			1.3	0.2	0.9	0.4	0.6	1.2	9
10			1.2	0.2	0.8	0.4	0.6	1.2	10
11			1.1	0.2	0.6	0.5	0.6	1.1	11
12			1.1	0.2	0.6	1.4	0.6	1.1	12
13			1.4	0.2	0.6	0.6	0.6	1.2	13
14			1.1	0.2	0.6	0.6	0.7	3.1	14
15			1.1	0.1	0.6	2.5	0.9	1.8	15
16			1.1	0.1	0.7	0.8	0.6	1.4	16
17			1.1	0.1	0.7	0.6	0.6	3.2	17
18			1.1	0.1	0.6	1.8	0.6	4.4	18
19			1.1	0.2	0.8	3.7	0.7	2.0	19
20			1.0	0.2	1.2	1.0	0.8	1.4	20
21			1.0	0.5	0.6	0.9	0.8	1.2	21
22			1.0	0.6	0.6	0.8	0.8	1.1	22
23		-	0.9	1.1	0.5	0.6	9.9	4.4	23
24		-	0.9	0.7	3.1	0.5	1.0	4.6	24
25		2.8	0.8	0.7	1.8	0.5	1.2	2.3	25
26		2.3	0.9	0.6	0.7	0.5	3.6	1.4	26
27		2.1	0.8	0.8	0.6	0.5	2.5	1.4	27
28		2.0	0.6	0.6	0.7	0.5	1.5	1.4	28
29		1.9	0.5	0.6	1.0	0.4	1.4	1.4	29
30		1.7	0.4	0.7	0.6	0.5	1.3	1.5	30
31		1.6		0.6	0.5		1.2		31



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